

DEPARTMENT OF THE ARMY
HEADQUARTERS, UNITED STATES ARMY MATERIEL COMMAND
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AMC Supplement 1
to AR 420-90

18 April 1994

Facilities Engineering

FIRE PROTECTION

Issue of further supplements to this regulation by subordinate commanders is prohibited, unless specifically approved by U.S. Army Materiel Command, Installations and Services Activity, ATTN: AMXEN-M.

AR 420-90, 25 September 1992, is supplemented as follows:

Page 5, paragraph 1-1, Purpose. Add the following:

This supplement establishes policies, procedures, and responsibilities for the U.S. Army Materiel Command (AMC) Fire Prevention and Protection Programs. This supplement applies to all AMC subordinate commands, installations, and activities. AMC activities which are located on other Government installations are exempt from this supplement and will adhere to the fire prevention and protection (FP&P) requirements mandated by the respective host installations.

Page 5, paragraph 1-2, References. To appendix A, section 1, add **AMC-R 385-100**, Safety Manual.

Page 5, paragraph 1-5, Fire protection program. Add subparagraph d after subparagraph c.

d. To recognize outstanding FP&P programs, AMC has established an awards program for fire protection program excellence. See **appendix D** for details and guidance.

Page 5, paragraph 1-7k, The Chief of Engineers (COE). Add to this subparagraph:

AMC installations and activities are encouraged to nominate individuals for this award by 1 May of each year.

Page 5, paragraph 1-9, Installation commanders. Add subparagraph h after subparagraph g.

h. Installation commanders (or commander's representatives at inactive GOCOs) will meet at least quarterly with the fire chief.

*This supplement supersedes AMC Suppl 1 to AR 420-90, 23 October 1987.

Page 6, paragraph 1-10, Facilities Engineer/Director of Engineering and Housing (FE/DEH). After the word "marshal" in second sentence, add the following:

At GOCO plants within AMC, the Safety Director on the Contracting Officer Representative (COR) staff is normally designated the fire marshal. At inactive GOCOs, the commander's representative will appoint an individual to this position.

Page 6, paragraph 1-11, Fire protection operational readiness inspections (FPORI). Add to the end of subparagraph a:

Criteria for allowable time limits for structural firefighting drills are contained in appendixes E and F. A rating of excellent, satisfactory, or unsatisfactory will be assessed each drill.

Page 6, paragraph 1-14, Contracted fire protection services. Add subparagraph d after subparagraph c.

d. All Performance Work Statements (PWS) for proposed new contracts (or subcontracts) for fire protection services will be reviewed and approved by the USAMC Installations and Services Activity (I&SA), AMXEN-M, prior to award of the contract.

Page 12, paragraph 2-1, Management of resources. After subparagraph c(5), add the following:

(a) This criteria is to emphasize the need to evaluate the impact prior to assignment of non-fire-related duties to Department of the Army Fire Departments.

(b) Major Command fire department inspections have disclosed that primary fire prevention duties are being postponed or neglected because of extra assignments. Required duties include training, fire prevention inspections, sprinkler system inspection and testing, water supply testing, fire apparatus performance testing (newly added by AR 420-90), hazardous materials training and cardiovascular physical fitness training. Nonperformance of the major duties increases fire risk, responsiveness degradation, and potential for fire losses.

(c) The non-fire-related duties include, but are not limited to, flag raising, snow removal, taxi service, manning telephone switchboards, mowing grass, water and feeding wildlife, washing down animal feces, cleaning animal pens, station weighmaster, processing time cards for other organizations, hazardous materials cleanup (unless fully trained and equipped to perform this function), clean sewer lines, Staff Duty Officer (SDO) duties, and performing emergency ambulance service. Although it is a common practice to assign the ambulance service duty to fire departments, it is not included in staffing guides or job qualification standards.

(d) Non-fire-related duties will not be assigned to Department of the Army fire departments unless man-hours are available after all required fire prevention and protection program duties have been accomplished.

(e) AR 420-90 should be utilized to test the effectiveness of fire prevention and protection programs and provide guidance for their improvements.

Page 12, paragraph 2-2, Installation fire chief. After the word "FE/DEH" in the first sentence, add the following:

"or a similar position at GOCOs."

Page 13, paragraph 2-7, Fire protection library. Add the following:

As a minimum, the library should contain the publications listed in section I of appendix A, when applicable to the installation missions.

Page 13, paragraph 2-9a, Reciprocal (mutual aid) agreements. Add to the end of the paragraph:

Mutual aid assistance will not be relied upon to provide initial fire response, but rather to support and assist AMC fire departments for large or catastrophic fire events. Mutual aid firefighters will not be used to fight fires in buildings or structures that contain explosives, nuclear, or chemical warfare agents. Care must be taken when entering into mutual aid agreements where there is only one Army fire company available, as any off post response would leave the installation unprotected.

Page 16, paragraph 3-8, Demonstrated performance. Add to the end of the first paragraph:

Performance capabilities will be validated by conducting structural fire drills and aircraft egress exercises during the FPORIs.

Page 18, paragraph 4-2, Firefighting equipment. Add to the end of the first paragraph:

Firefighting equipment or apparatus will not be used for routine non-fire-related activities. This does not preclude the use of firefighting equipment for nonfire emergencies.

Page 20, paragraph 4-7b(1)(d), Vehicle inspection, maintenance, testing, and record keeping. Add the following:

If the number of in-service pumpers falls to 50 percent or less of the total number of required pumpers, for 72 hours or more, the installation commander or his/her representative will notify the USAMC Installations

and Services Activity (AMXEN-M) by message. A copy of the message should also be furnished to the major subordinate command (MSC). The message will include the following information:

- Type of vehicle (make/model/line/item number/etc.).
- Explanation of the problem (lengthy repair, nonavailability of parts, etc.).
- An estimation of time required to place the apparatus back into service and any special assistance required.

Page 24, paragraph 6-5, Fire regulations. Add subparagraphs a and b.

a. Each installation will establish and enforce a prepared set of fire safety regulations. The scope of such regulations is to be prepared by the joint effort of the installation fire chief, fire marshal, and operating personnel and approved by the commanding officer. The regulations will include, but are not limited to --

- (1) Methods and responsibility for fire reporting.
- (2) General instructions on building evacuation.
- (3) Fire signal recognition.
- (4) Procedure for correction of all fire hazards.
- (5) Housekeeping procedures.
- (6) Minor/major storage and maintenance practices.

b. The formulated regulations will be prepared or reviewed for applicability once a year. The regulations should be posted on official bulletin boards.

Page 24, paragraph 6-9b, Inspection frequency. Add after the first sentence:

In facilities which are totally inactive or laid away, an annual fire inspection is considered adequate.

Page 24, paragraph 6-9b(1), Inspection frequency. Add to the end of the paragraph:

This will include active explosive production/maintenance facilities. All extra hazard areas should be inspected for poor housekeeping, smoking violations, excessive accumulation of flammables and combustibles, improper storage and dispensing of flammables, process fire hazards, and blocked fire doors and exits.

Page 24, paragraph 6-9b, Inspection frequency. Add subparagraph (8):

(8) Firefighter crew-type inspections are only for low-hazard occupancies.

Page 24, paragraph 6-9e, Hazard/deficiency inspection record. Add to the end of the paragraph:

Within AMC the "Functional Manager" will normally be the immediate supervisor of the area. Fire hazards/deficiencies identified, which are not corrected by the allowable suspense date, should be forwarded to the installation commander for action. (At GOCO installations, the plant manager will be notified.)

Page 25, paragraph 7-8, Automatic sprinkler systems. Add the following after the first paragraph:

The following guidance applies toward deactivation of sprinkler systems for inactive facilities:

(1) Deluge type sprinkler systems are specifically engineered to provide localized protection to personnel and equipment at operations where special hazards exist. These systems may be deactivated when the hazardous operation is discontinued and approval for deactivation is at the installation level. When facilities are laid away, deluge systems will also be properly laid away, will not be removed or cannibalized, and will be restored to operation prior to start up of the hazardous activity.

(2) Standard sprinkler systems are designed to provide general fire protection for building and/or contents. This type sprinkler system cannot be deactivated without prior approval of the USAMC Installations and Services Activity. Requests for approval to deactivate sprinkler systems should be made through channels and should be accompanied by a description of building and contents, evaluation of any hazards, location relative to other facilities and fire hazards, evaluation of the dollar value of the facility and contents, mobilization status, and other pertinent data. Where it is determined that sprinkler protection should be maintained during layaway, consideration should be given to converting wet pipe sprinklers to dry pipe type to preclude building heat requirements.

Page 26, paragraph 7-11a, Fire extinguishers. Add to the end of the paragraph:

It is AMC policy that all employees will know the location, operation, and condition of fire extinguishers within their respective work areas. If a deficiency is noted it should be brought to the immediate attention of the supervisor or the fire department. This satisfies the weekly visual inspection requirement and no written documentation is required. This applies to fire extinguishers in buildings only.

Page 26, paragraph 7-11, Fire extinguishers. Add subparagraph j after subparagraph i:

j. Fire extinguishers on nontactical vehicles (pickups, vans, sedans, etc.) and materials handling equipment (MHE) will only be required on vehicles transporting flammable, explosive, or other dangerous materials, police and fire vehicles, on MHE operating in explosive areas or where fire protection is not available (remote areas, buildings without fire extinguishers, etc.). Daily inspection of these extinguishers is the responsibility of the equipment operator and should be annotated on the daily vehicle checklist. Providing, inspecting, and maintaining of these extinguishers is the responsibility of the using organization and not the fire department. Contractor vehicles are not excluded from this regulation.

Page 26, paragraph 7-13, Special-purpose fire suppression systems. Add the following:

Criteria for water deluge systems, which are primarily designed for personnel protection in ammunition production facilities, are contained in AMC-R 385-100.

Page 27, paragraph 8-1, Reporting fires. Add subparagraphs a and b.

a. In addition to the above written reports, certain fire incidents require telephonic notification within 3 hours. Criteria for this reporting are contained at **appendix G**.

b. Installation commanders will submit an after-action report on any fire incident with a loss exceeding \$10,000 or involving death or injury resulting from negligence (e.g., unattended cooking). The report will explain the cause of the incident and corrective action taken and will be submitted within 5 days of the completed investigation to: Commander, U.S. Army Materiel Command, ATTN: AMCEN-F, Alexandria, VA 22333-0001.

Page 27, paragraph 8-2, Preparers of reports. Add the following:

Within AMC, the policy is that all DD Forms 2324 (DOD Fire Incident Reports) and the DD Form 2324-1 (DOD No Loss Fire Emergencies Report) will be signed by the installation commander (or the commander's representative at inactive GOCOs). A typed signature block will also be provided.

Page 27, paragraph 8-4c. Add after the first sentence in the paragraph:

Fires resulting in losses over \$200,000, death, or serious injury will be investigated by representatives from AMC I&SA. Findings from these investigations can be incorporated into the supplemental technical investigations. Technical investigations, for the purposes of the

regulation, are not intended to establish financial liability for losses. Representatives of AMC I&SA may investigate fires of less severity if special or unusual conditions warrant or if assistance is requested from subordinate commands or installation commanders.

Page 33. Add appendixes D, E, F, and G after appendix C.

The proponent of this supplement is the United States Army Materiel Command. Users are invited to send comments and suggested improvements on DA Form 2028 (Recommended Changes to Publications and Blank Forms) to the Commander, HQ AMC, I&SA, ATTN: AMXEN-M, Rock Island, IL 61299-7190.

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APPENDIX D

FIRE PREVENTION AND PROTECTION AWARDS PROGRAM

D-1. An awards program has been established to recognize excellence for AMC fire departments and fire prevention programs. Details and guidance for submitting an entry for consideration are as follows:

a. Participation in the awards program is voluntary.

b. Fire categories have been established in an effort to give all AMC installations an opportunity to compete with others having similar FP&P programs. The categories are:

- (1) Government-owned, Government-operated (GOGO).
- (2) Government-owned, contractor-operated (GOCO).
- (3) Fire prevention offices only.

c. Fire prevention offices are encouraged to participate in this contest. Submissions by these offices need only address those entry elements applicable to fire prevention programs.

d. Award evaluations will be based on a narrative composition of five pages maximum which address the following:

(1) General: Describe the installation in terms of location, size, buildings, special facilities, missions, population, activity level, fire hazards, size of fire department, apparatus, etc.

(2) Fire Prevention and Protection Program Management: Describe program in terms of staffing, facilities, apparatus, mutual aid agreements, compliance with AR 420-90, success of program, recent improvements, and future plans.

(3) Fire Prevention: Describe the program and how it is planned and executed. Discuss inspections, correction of deficiencies, and follow-up. Include fire prevention efforts related to facilities, quarters (if applicable), special hazards, employee and resident education, construction projects, etc. Describe overall results of existing program and any plans for changes or improvements.

(4) Training: Describe classroom, off-post, and on-the-job training. Discuss subjects, practical drills, live fire training, and how program conforms to requirements of AR 420-90. Include all firefighter, Emergency Medical Technician (EMT), Hazardous Material (HAZMAT), aircraft crash, or other type training. Address future plans or changes to program.

(5) Fire Protection Engineering: Describe improvements made in building or personnel protection through installation of sprinklers, smoke/heat detectors, alarm systems, new water mains, etc. Discuss fire safety features in new or proposed facilities. Describe procedures for correcting fire safety deficiencies that require short or long-term follow-up actions.

(6) Special Activities: Describe fire prevention, education, training, and mutual aid assistance activities. Include anything related to EMT and HAZMAT duties, if applicable.

(7) Awards and Recognitions: Describe activities that result in awards, certificates, letters of appreciation, etc., for the department as a unit or for individual members. These can be for actions on or off the installation.

D-2. Submissions should be sent to Commander, USAMC Installations and Services Activity, ATTN: AMXEN-M, Rock Island, IL 61299-7190, by 15 June each year for screening and judging.

D-3. Winners will be announced and award plaques will be presented at the annual Army Fire Chiefs Training Session, held in conjunction with the International Association of Fire Chiefs Conference. Awards to be given will be as follows: "Fire Prevention and Protection Program Award, Winner" and "Fire Prevention and Protection Program Award, Runner-up" for the GOGO and GOCO categories and "Fire Prevention Program Award, Winner" and "Fire Prevention Program Award, Runner-up" for the fire prevention office category.

APPENDIX E

ALLOWABLE TIME LIMITS FOR STRUCTURAL FIRE FIGHTING

E-1. Structural fire fighting drills (normally one for each shift) will be conducted as part of the FPORIs. The purpose of these drills is to evaluate and rate the fire department's capability to perform basic firefighting evolutions, techniques, and tactics. Simulated fire drills will be used to make this evaluation.

E-2. Fire departments will be required to perform the following tasks, within the specified timeframes:

a. Firefighters must be able to don protective clothing and exit the fire station within 1 minute from the receipt of the simulated alarm.

b. Upon arrival at the scene, they will be expected to lay a 2 1/2-inch supply line into the pumper, have at least two firefighters in SCBA, advance a 1 1/2-inch line into the building for rescue purposes within 3 minutes of arrival at the supply fire hydrant. Additional tasks such as laddering the building, simulated ventilation of the roof, advancing a second 1 1/2-inch line to the roof, and simulated utility cutoff will be performed within 5 minutes of the time of arrival. All lines will be charged.

c. The AMC I&SA evaluator will assess the overall performance of the fire crew and a rating will be given each drill. All drills will be timed and an after action review will be held at the conclusion of each drill. The following elements will be evaluated in assigning a rating: Protective clothing, hose evolutions, command and control, SCBA, pre-fire plan, etc.

E-3. Results of the structural drills will be one of the elements used in determining the overall FPORI rating.

APPENDIX F

ALLOWABLE TIME LIMITS FOR AIRCRAFT RESCUE FIREFIGHTING

F-1. Aircraft Rescue Firefighting (ARFF) drills (normally one per shift) will be conducted as part of the FPORIS. The purpose of these drills is to evaluate and rate the fire department's capability to perform aircraft rescue firefighting evolutions. Simulated fire drills will be used to make this evaluation.

F-2. Fire departments will be required to perform the following tasks within the specified timeframes.

a. Firefighters must be able to don protective clothing and exit the fire station within 1 minute from the receipt of the simulated alarm.

b. Upon arrival at the scene they will be expected to attack the fire with turret(s), position the vehicle as to be able to protect the rescue side of the aircraft, fully extend the handline and flow water within 3 minutes. Rescue of occupants and water supply provided by an additional unit (if available) will be accomplished within 10 minutes of arrival at the scene.

c. The AMC I&SA evaluator will assess the overall performance of the fire crew and a rating will be given each drill. All drills will be timed and an after action review will be held at the conclusion of each drill. The following elements will be evaluated in assigning a rating: Protective clothing, safety, vehicle positioning, rescue, vehicle operations, command and control, SCBA, pre-fire plan, etc.

F-3. Results of the aircraft rescue firefighting drills will be one of the elements used in determining the overall FPORI rating.

APPENDIX G

TELEPHONIC NOTIFICATION OF FIRE INCIDENTS

G-1. In addition to the written fire report, a telephonic notification (within 3 hours of the incident) is required for the following:

- a. Any fire, on or off post, when the loss is \$10,000 to Army equipment or property.
- b. Fire resulting in a death.
- c. Fire resulting in lost time or disabling injury.
- d. Arson is suspected.

G-2. Installation commanders or COR Staffs at GOCO installations are responsible for ensuring prompt notification of the following:

- a. During normal duty hours.

HQ AMC, Deputy Chief of Staff for Engineering, Housing,
Environment and Installation Logistics, Alexandria, VA
AC (703) 274-9296 or DSN 284-9296

Also notify -

USAMC Installations and Services Activity
Rock Island, IL
AC (309) 782-6138/8260 or DSN 793-6138/8260

- b. After normal duty hours.

HQ AMC Duty Officer
Alexandria, VA
AC (703) 274-9223 or DSN 284-9223

Also notify -

Rock Island Arsenal Staff Duty Officer (information
will be relayed to AMC I&SA representatives).
AC (309) 782-6001 or DSN 793-6001

Note: The above notification requirement does not satisfy or negate any requirements mandated by the MSCs.